

# SEQUENCE LISTING

<110> Young, Paul  
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 Endress, Gregory  
 Augustus, Meena  
 Ebner, Reinhard  
 Carter, Kenneth

<120> Cancer Gene Determination and Therapeutic Screening Using  
 Signature Gene Sets

<130> 689290-64

<150> U.S. 60/209,473

<151> 2000-06-05

<150> U.S. 60/209,531

<151> 2000-06-05

<150> U.S. 60/236,891

<151> 2000-09-29

<150> U.S. 60/236,842

<151> 2000-09-29

<150> U.S. 60/244,867

<151> 2000-11-01

<150> U.S. 60/245,084

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<160> 1067

<170> PatentIn version 3.0

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tactcttact	tgtttacatg	agttaactag	aaaatggcta	caactgctaa	atgatgctta	180
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ctcttaaaaa	attagtagtt	tctactttgg	attnttccct	cnggatggat	ttcaccctt	420
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 aaactctacc ccccttaaca tcacaatagt aaacaattta gtgcatcaat cgtttaaaaa 300  
 atctacagct aaacagacct aactctttca aatttatcta taacattcct ttatctgtag 360  
 catacatttt aactgggcta acagattata aaaactagaa ttaaattata tactagaaac 420  
 ccagagcatt ccacatttga caatgaccaa aagccaaaaa atataaaata aaaataaaac 480  
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 ccaaaatctc aaactgggct tgagtaaac cctagataaa catcaggaac cccactgagg 240  
 ctgaagtact gaaactgtgg cccatgtgaa aaagaggtgc aagtgcacaa gattcatgca 300  
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 ggcnaacacc agccgagttt ttacagtggc cattatcttc gtgccgaatt tggcccagag 600  
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<213> Homo sapiens

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<213> Homo sapiens

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gaaaacacag	ttttttaaac	gatccatctt	ttaacagccg	aaaccgatgt	gtctatggtg	180
ctgcaccttg	ctgttgtact	tctgaaatca	gacgtgtgtg	aacgatcatt	tctgacttaa	240
ccgtgagatg	ctcacgagta	cccttctctg	tgttttggtt	gcattgaaat	cgagactatt	300
tatttggaat	atatacaaca	gtgtttttcc	actgtatttc	atttgcaaaa	gttgagaact	360
gc						362

<210> 27  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400> 27  
 attaatatga acatatgaac ctttattaag tggctcacat ttcagtataa atcacactaa 60  
 aaagatatatt aaaagctatt tacactacag tgctgacaca tttaaaatga aaaaaaagga 120  
 tataaataag ctctatggaa aagctttaaa ttgttgaaaa agaattctgg ctcatattac 180  
 aaaatatata tatatatata tatatatata tatatgtcaa tgtcagctct attctaaaac 240  
 ctaaaattcc aacgtaaatg attttttttt aaagactcct ttatgtttaa acctgcaatg 300  
 ttacagtgac atctggccct aagtgtttaa tacttcacag ttatggacag gcactgagga 360  
 atgttacaaa gctacataaa ctatgttttg taacagacat aggagcaagt c 411

<210> 28  
 <211> 417  
 <212> DNA  
 <213> Homo sapiens

<400> 28  
 caggaggaaa aaaattttta taacatatgt ttgcacagga gtcccacaaa atatgagact 60  
 ccgagaagag tcagatgatg gacactcatg caccaccgtg agctatcgaa agaatgtggg 120  
 cttagggctt ctgcatggag gtggccacgg aagtgtgaaa gtgaaggcaa gaagtgtgtc 180  
 ctgaataaag cttggctggg ttccagacaa aaggctctct gggtataaaa tgttgtctgg 240  
 agcagccctc aggagaagag gtaagagcct gtatgggatg gtgtcgctgc caacatcctt 300  
 ccctgtgatc ccacttactc ttccctggct gatgagatac ttgggggtgt gattcatgat 360  
 gattgaattt ccttttgagg atttgtcttt gggcagatga aggaggctca gagaaaa 417

<210> 29  
 <211> 268  
 <212> DNA  
 <213> Homo sapiens

<400> 29  
 aaaagaaaaa tgttaagact ttattcaaga tgtgtatcag gcattataac aaaacagcag 60  
 aacttcaacc tttggaatac tgtaatttta catccctttg atgcacagtc cagtatacta 120  
 ttttattaca gatcattcta tagggactac agacatgaac tagaggaaat gtgcacagtc 180  
 aaaatccaga atatcagctc tgggagtgtg cactgttaga ggatgaagca catcctttgc 240  
 catttcaaat actgtgccag gtggagga 268

<210> 30  
 <211> 241  
 <212> DNA  
 <213> Homo sapiens

<400> 30  
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 tatgtctaca caaagcttag aagcacttta tttgggagca atcagtattt ttgtcaaac 120  
 ttttgacag gtctttattt gtgttttgga aggttcaaca cgaattgtgc aaaatctctg 180  
 gatatatagg ttttagcgata tggttgttga agaaaataat atgttttaag cattcacaac 240  
 g 241

<210> 31  
 <211> 361  
 <212> DNA  
 <213> Homo sapiens

<400> 31  
 ctcccaaaat aggaaatttt gtattcctat agtcaaaaca ataaacaatt ttgaaatta 60  
 aaaaagttga gaatcttgaa attcattttt ttcagtagaa taaaacaata agcagcatga 120  
 aaacgtaaag tgctacataa aagccccaca ttacataaat ttgaaaagt ttattggctt 180  
 aaacagttac aggtgaaaca gattacgtat tttttttcaa gcatgctatt ttaattacct 240  
 tgatatctca tcatgtgcta tgttgggtcaa ataaaatgtc atgagttatc tagatctgag 300  
 gattaaagag gagtcttcag cttttacttg ccagaatata catccagttt tagctgtatg 360  
 c 361

<210> 32  
 <211> 363  
 <212> DNA  
 <213> Homo sapiens

<400> 32  
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 aacttaagtt ttgaaaatta agatgcaggt agtgcttctg aactaatgcc cacagctcca 180  
 aggaagacat gtcctattta gttattcaaa tacaagttga gggcattgtg attaaagcaa 240  
 caatatattt gttagaactt tgttttttaa ttactgttcc ttgacattac ttataaagag 300  
 tctctaactt tcgatttcta aaactatgta atacaaaagt atagtttccc catttgataa 360  
 aag 363

<210> 33  
 <211> 320  
 <212> DNA  
 <213> Homo sapiens

<400> 33  
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 ttgattgcaa atttagatca catacaaag agagtctgac attcaactgt tttcctatat 120  
 tccaaagtaa acaattcctt tcaacactca agacttaaag aggtattctt agaggggtat 180  
 atgaattgct atcagaagct gttggctaac aagccagtaa tttggttctt tcaccagaac 240  
 acagttccag ataagcatct ttgcactatt tctcaagtat gaatcccat gtggggggaa 300  
 aacggatata ctttcaatag 320

<210> 34  
 <211> 299  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 34  
aatagttcca ttcattaagt catttcttct tgctctgctt ggtaaaaggt gaaaacatgg 60  
catcaaaaca cagcccagag aaagtcaatt cctgtatttc taagacagta ggatccaggc 120  
ttatttggaa gataaaatat ctctggaaga acagatagtg ttaatggatt gantcatttt 180  
cctcaaaaag atataacccc cagaacctca gaacgtgacc ttatttggaa atagagtcac 240  
aacatatgta attagttaaa attagtccat attggagtag ggtggacact aatccagca 299

<210> 35  
<211> 515  
<212> DNA  
<213> Homo sapiens

<400> 35  
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ccaagttgct gtaggtgctg cccgcattaa cagcagggac aaaagcttcc tatgcgcgctt 120  
tcagcaggaa tactctctcc actccaggta cttctttggt ttggattttt ttggcatgat 180  
ttccttccca tgtaaagaaa gccaaacttct tcaagacaca ggtcattcag ctttagtggt 240  
ggcctccagg ttctccttgg gccgtgcaga aggccaggtc ccgcacagtg aggcctcct 300  
ttgtctccca ctgaaagctt ttactgttcc ggtctgcaaa gaaagagggt cgcctgcccc 360  
tgctccactc gccaggggtg aagtgggtga gggctgggaa agggctttct tcacagggca 420  
gtgctctcgg tatcattgtc tatatccagc aggatgcggc caggcacgtc tttgctggct 480  
gagtctgagt gcatttcagg aaagatgctg cgatg 515

<210> 36  
<211> 350  
<212> DNA  
<213> Homo sapiens

<400> 36  
ttttgaactt gctcagaatt ttattgggat taacaggggc cacggggaga ggcgagcctt 60  
ctgggggacg gggacagaat accgcaaaga ataccgcaat gggaaacggcc ttgcatagac 120  
accgagcgcg gctagcgcg cgccgggaag aggagagggg tggagaaaga acttgggaga 180  
ggaaggtggc agcagcgctt ccatgggcac tgcgcggctg tgacgaaggc cacagcggcc 240  
ctccccgctt cggggtacag ggtgtccact ccacacagca caggagagg ggctggggca 300  
caactgactg ggagaagtgg gtagaggggc cctgaccaag gcatcacaat 350

<210> 37  
<211> 344  
<212> DNA  
<213> Homo sapiens

<400> 37  
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tttctatttc ttacttttat tttgtgcctt gaaggacttg tgaatgtata gaataattat 120  
tttttcttac tgcttctctt ttgcaaccca acctccacca agtcaatcgt gaaggtagga 180  
agaaagctgt atttctgtta cttttaaaaa tgataacgag aagaaattaa aacaatggct 240  
taagagaaag aggatgtaag gagtacaaag caaaacttaa caaagagtta gtaaaggaac 300  
ttgcattgac aattcactca gccatgttaa ttttatcatt aata 344



<210> 38  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

<400> 38  
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 aagtacagtt ctagtgacca caattatgaa gctctgctcg tactaaaaat agcagatata 120  
 aagttggctg ccatgcctta cacacactaa gacacacaca cacacacaca cacacacaca 180  
 cacacaagggt tttgcatact cttacatgca aacagtacta tgctattata ggaaatgtac 240  
 tttccttttta ttaaaaatac aattacacac aattagtcctg ggttttgtta agctaccact 300  
 gatttagata aacctgagaa agctcaaaat atcaagtaac actgtttcca tactgctcat 360  
 tcaatggcac tatcactcaa aaagaaatct agttcaatca tctatattaa aatcacagat 420  
 aatataaaaa taaacatttt ttgcaatagc actaaaacat actataattc aaattcacia 480  
 attttgatat gtaacatata ttcacettca tattaatttg tgattatgtg tataatacca 540  
 tgt 543

<210> 39  
 <211> 186  
 <212> DNA  
 <213> Homo sapiens

<400> 39  
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 ttacacgagc cgcggtggcc tgggtgggtggc acgtgggggg cgcccccgcg gcggcggtcac 120  
 agcggtccca ggtcctcgtc cccgcacgca tactcgtaca ggtccacggc gccacgcggt 180  
 gagggc 186

<210> 40  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<400> 40  
 tttggaaaat gacagggtttt tattgctatg tttgcagtgg ctttttagca cagtaagaat 60  
 gtccccgcag gccaccacc ctcacgcagc cccagccctc cagcctctgt cggggtgtca 120  
 gggaagcctt tcttgggggc actcagccgt ctcgggactg gacgtgacag acatacgtgg 180  
 gttaaagccg ctacacagaa gactggagggt gcaggaagtg catccgcctt gagcctggat 240  
 gtgggagccg tgtccggggg ccttctctgg ggctgtgcac gccagggca cagggtggga 300  
 agcctgagca ggccagggtta gcagcccaga caccaggat ggaatattgc agcctcttgc 360  
 cccacagaca cccaagctca cacaattgat attgggtggg attggcgag gaa 413

<210> 41  
 <211> 365  
 <212> DNA  
 <213> Homo sapiens

<400> 41  
 ttttgagaga aaaggaaaaa ctttagttta aatctttaca ataaaataat tatgactata 60  
 aatctcttta gttaaatatg tacacattac atgggtatttg tataaagaat ggaaatggat 120

aaagtttttc	aggcaaactct	aatgcacaaa	tacaccatct	tttagagtat	aatgtcagtt	180
tatcattcgt	taacagctgt	gttagacagt	ggctctgctt	tgtgcaaaac	gtgataaaca	240
aaattaggaa	aaattctgca	aaattattta	gttccccaag	gaaattacta	aaatagaaaa	300
tggcaaaaga	aaaaaaggtt	gcacactgaa	gcttgattgt	atactcaggc	tacaatgacc	360
agcac						365

<210> 42  
 <211> 489  
 <212> DNA  
 <213> Homo sapiens

<400> 42						
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aagaggcaaa	tgttttgcaa	aatatgtaca	aaagtaaaaa	gctgtaatga	actagcaact	120
cattttataa	aatcaaacca	ttctttccac	tttttagacct	ccttttagaaa	taatttattg	180
cccatcctga	actaaagcac	tgacaaaaaa	atttacaaca	attatcagat	aatgtgctta	240
gttcctggaa	agttataaaa	agatatatgt	aaaaaaaaaa	tcctaagcca	caaatatttt	300
atagagctaa	tacgagtcac	gttttgtttag	gtacagtatc	tacgggggta	ttacaaaata	360
tactttttta	taaggcttct	tgtggtaaat	gagctctcac	cagagtagag	tagtttagaa	420
aagccatttc	aaacgttttg	cgattctgcc	ttcaagtaag	aggtaaaagg	taaatggcat	480
agtttggttg						489

<210> 43  
 <211> 321  
 <212> DNA  
 <213> Homo sapiens

<400> 43						
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atttgctgac	ttcagcaaag	aatcaatgat	gagcttagtt	tgcaagaacc	ggttccatca	120
catggaacgg	gaacgtatgt	taagctctag	cagccacctt	ctgtcaaaac	tgtttgtaaa	180
gcaattacca	taatcagggt	atgaggtccc	ttgggtgggg	gaaaaagtat	tatcaagact	240
tggcacagca	catgaaaagc	aacatgttaa	gtttctaggt	tttaagcaaa	catctgacta	300
tgctattttc	aactacatca	t				321

<210> 44  
 <211> 363  
 <212> DNA  
 <213> Homo sapiens

<400> 44						
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ctactcaaaa	gcaaatagtt	gtcaagaatg	tggtttacaa	gacagatctt	acagataata	120
cagactatat	tatgatttat	ctgtttgaaa	acagaaagta	gtgtattata	ctgaattctg	180
gtataagggtg	cgcaggaaac	tttacttaca	atcctttatt	ttcataaggt	aaacacaaaa	240
gtattttctca	catatattac	caccagattt	tttttaaac	aaattccggt	ttaaaaatca	300
cacactgaca	acacagaaat	acgaaatgct	aggaaaagtc	tagcatatga	aggaaaaaca	360
tgt						363

<210> 45

<211> 412  
<212> DNA  
<213> Homo sapiens

<400> 45  
tttttttttct ataaaaatat aactcttttat taaataacat gcacaaatat caactagtca 60  
ttaaacagat atttagaaca aattgtaaag aaatacaaat ccttaggtac aatttagtat 120  
cttggtcatg atatttgaag agtttaaaaa gaatcactga ttaaaactaac catccttttt 180  
ctttctgaat ccaaaacctt ttcaggcata tactccattc caaatttttt tctagcattt 240  
cagagcttca gaatatcttt aataccaaaa gcccttaact acttatttga ttatacattt 300  
ccaatgagaa ggcatttaact tttcttttaa gctatcatta gctttgagtc tctttataaa 360  
agaaatttgt agaagcataa tcatggcaga gaggtccag ctttttgagg ta 412

<210> 46  
<211> 421  
<212> DNA  
<213> Homo sapiens

<400> 46  
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aattatgtga cattaagaaa taatttggtt gcatattatt ttcaaaaagc agtaagaaag 120  
tagctattga gaaagaagga gggccatagg tttttcaata aaacgttaga aacattataa 180  
aaaacgagac tcccattaca tggaaacaca tgatcaaaga tcagactaac acacattcaa 240  
acaggcttgg ttcgaaatag agttctccat ttctttcaga tgagcctttt ttcttaggct 300  
ctttcagaag cacttcacaa tgaacagagg tcttgccagc tcatttcatt agcggagaag 360  
caaaggtatg atggcagaat catgagaaga tggaaataag gcctgaggat atggcttgat 420  
c 421

<210> 47  
<211> 324  
<212> DNA  
<213> Homo sapiens

<400> 47  
ttgtcaatgt tagaaacatt tacttctgac gataatccat atagctttct ctgatgttac 60  
acagcgatta catctccttg tgtctaaatt aaagtcaaag tatgaatttt aagatgattt 120  
ttaattattt aacaagtaga aatacgatca gtgacaatta tcaattaaaa cattaaacaa 180  
cccagttacc ttttcttaac agtcatgatg aaatatccct ttctgtctt atcagaagcc 240  
ttaattattc tctaccacac acaccacaaa agcttcttaa tagagcatca gtgtccatca 300  
cacctttgtg tagaatctct ggca 324

<210> 48  
<211> 502  
<212> DNA  
<213> Homo sapiens

<400> 48  
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tgataattca tgtagaacgg gtgccacaga ttttaaagta tcaaaaccaa gagggcatca 120  
caaaataaac tttggtgaaa aatatcttca tcaaagaaga aaatatgaga agagtagtcc 180  
ttatgcagtg aggagaaata tatttggttaa agtaaatatg ggtagtagat actgaatcta 240

tagatagcat	atattccaaa	tgtttttttag	ggaatatcaa	atcagatgat	gcttagatgt	300
tatagtaata	tcacttatct	catttggaat	gaaatttaat	gttttttaat	aaatagcaaa	360
ttttcatttt	ttcactacct	ttataaaaca	aattaaatat	ttagagtata	actgatcata	420
actaacatca	ccttgcattt	actaataaat	actctaaata	catttggttt	attattggaa	480
tttataatcct	tataatttta	cc				502

<210> 49  
 <211> 398  
 <212> DNA  
 <213> Homo sapiens

<400> 49						
gagaaacact	atatttttat	ttattttattt	attttgagac	agtcttgctc	ttattgcca	60
ggctagagt	cagtatttac	aaattacaca	cacataaaat	ctggatttct	agcttcttat	120
gacaaaggat	ctggcaacac	cgggccacac	ttcagcccca	caggccacag	gtgacttgac	180
ttgctctcag	ttcaccctcg	cccctgccag	ctttgtctcc	tgacaccgaa	acagcccgtc	240
agagctgtca	ctcgggttca	tgcgtgttac	ctgtctggcc	ctggaaaggc	cctggagtgt	300
gtggcgccac	tccaggtcaa	caggcatggt	tagaaggagc	ctgccagggg	ctgcatggcc	360
gaggagccac	ctctccctgc	agaggaaagg	gatcctgc			398

<210> 50  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<400> 50						
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atcatcctag	catgcacca	ggaaatcagc	aaaaacccat	ttaagagtcc	agacttcaag	120
ggctccctcac	agtaatgggc	atctcttggt	ttgcccagac	agagcagacc	actcgtttcc	180
ccttattctg	ctaattgtat	ttcattttcc	tttaagcaac	cacctttcac	cccatcctga	240
atcctcagac	cttattttcc	tggctctagg	aattagcaca	tgacacaggc	ctggccactc	300
agagtgtttc	attcccctag	aagtagagat	gagaccccaa	acgggtcaat	gacactctcc	360
acttgggaatt	attggaataa	gtaaatctct	tcccactggg	ttactgggtt	agcaggatag	420
aagc						424

<210> 51  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<400> 51						
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tttaaaataa	aagtcataca	aacacaaaat	atattttctgt	gtcatgccag	ctcattatat	120
aataaacatg	ttatgacagc	taattctact	agaattactg	tgaatactta	cagtacactg	180
aatttttattc	tttcacatcc	attttagttt	ttaaagagagg	ttcacgagtt	aaatgacaat	240
ggcatggcta	tcttgaatgg	ggtgcaaaca	tcattgggga	atgtggatcc	aattaatccg	300
aagggtccggt	gtgaccgta	ttagttttat	agacaagaga	aggggttaag	atagggtgaa	360
atgagctatc	agtggtttca	atgtctcatg	aaagaaagaa	atgcattaaa	aaaaaaaaag	420
tttg						424



<400> 55  
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 ttacaggtgc ccaccacgcc cggctttttg tatttttagt agagacgggg ttttgccatg 180  
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 gtgctgggat tacaggcgtg acgaccacgc ccagccacgt tctgagtttt gaggatccag 300  
 aaacaaaagg ctggaaagcg acacttctac aggtttactg atgagtcgag agaaaatcca 360  
 aaaacaaagc cccactgagg gtttgtgaat ttggctgttc 400

<210> 56  
 <211> 288  
 <212> DNA  
 <213> Homo sapiens

<400> 56  
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 tggcatatgg acacccccag tgctgccggt ctgcgttccg gtacaaaagt ctgagcagga 120  
 aaccaacctt aatggcttgt tgggtggataa gacggcatca acttgatcat ttgcccattg 180  
 agagaactcc caggagcaac tgtcctctct ccagtacacg cggcacgttg ctaagaaggc 240  
 agatttcagg atattcacat tcatgcatta cgtatctcac actacctg 288

<210> 57  
 <211> 299  
 <212> DNA  
 <213> Homo sapiens

<400> 57  
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 gttaacttca agacagcaat taaaatcacg gactggcagc tacctaggcc cctgggagca 120  
 gtatctcagt ctgggggttg ggtggataaa tactataaga tttaagatga atgtgcccc 180  
 attaaagggg caaaactact gtacagtagg tctccacaca tattttaagt acacaggtag 240  
 tttgcaaact tgaaatgcac aaggcctcct tttatatagt ttgatactta catgagtgc 299

<210> 58  
 <211> 407  
 <212> DNA  
 <213> Homo sapiens

<400> 58  
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 aaatgaaaca gtgtgcgtac tggctgttag aagttgatgg cggctctactg tttgatattc 120  
 actgccatct tcctctgccc cactctacct caactcggga ccgctcacc taatggtggg 180  
 ctttgcgctt tatgccatgt agagaagaca ctgggtaacc acagcaaata aacacgagat 240  
 cctgtactgc ctactctggg aatataaatg gctctgagga caggggataa aaccaaaga 300  
 tctaggagta gctgaatgcc aagagacgag ttagaacaag ttttagttcc aaagatgatt 360  
 agactggaaa gaaaactgat ccaaggaggg tcatttctgt gtagatc 407

<210> 59  
 <211> 440  
 <212> DNA

<213> Homo sapiens

<400> 59

aaataataca	actagtaatt	tcttaagatc	ataaattcca	ttacagtaac	cctggtaggc	60
aactctataa	agttctgggc	tccaagaaga	ggtcagtgca	tgccataaat	gtgtttgatc	120
tgctgtgaag	tatattcagt	cttcaaaatg	taatgcttac	atgagataaa	atcggttggt	180
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<211> 436

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<213> Homo sapiens

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<211> 438

<212> DNA

<213> Homo sapiens

<400> 61

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<211> 387

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<213> Homo sapiens

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<211> 416  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n=a,t,g or c

<400> 122  
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aaaacctttg agcaacctac cagtattatt ttcaaagcct ctaattctac ataatttatg 180  
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gctgtgcccc gtgcattcca ccggaggcca cggagggcct tcttcattcc tgccttcctt 360  
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<211> 394  
<212> DNA  
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<220>  
<221> misc\_feature

<223> n=a,t,g or c

<400> 124

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ggaaccaaag	caatttcagc	taacagtgc	cagtttttag	gaatgggagc	ttatgatcag	300
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<210> 125

<211> 411

<212> DNA

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<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 125

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caacatgtag	gcatttctgc	tgtnaacct	taagtctnca	tattaccagt	tccccgggat	360
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<210> 126

<211> 387

<212> DNA

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<220>

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<400> 126

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<211> 429

<212> DNA

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 139

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<212> DNA

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 <213> Homo sapiens

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 <211> 1071  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <213> Homo sapiens

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<210> 173  
 <211> 1763  
 <212> DNA  
 <213> Homo sapiens

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 <211> 571  
 <212> DNA

<213> Homo sapiens

<400> 174

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<210> 175

<211> 472

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 175

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<210> 176

<211> 412

<212> DNA

<213> Homo sapiens

<220>

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<223> n=a,t,g or c

<400> 176

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 <212> DNA  
 <213> Homo sapiens

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<210> 178  
 <211> 445  
 <212> DNA  
 <213> Homo sapiens

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 aaattttctt gatttttaaaa aatgtatttg tgttttgtag gttggaacgc aaaccagtc 60  
 tggccacgtc ccgtgaagtt gtggacaaaa tgtttcagtt tctgttcacc tctgtgcgtg 120  
 tgtgtgtatg tgttggtgtg atgtgtgtgt gtgtgtgggg gtgggggatg gggtaggtat 180  
 gtgcttttgg ctcatgtttg tgatgataac tgaagtcttt tgtgggtccg acctgttgta 240  
 ggggtgtgggg gaaagtgaag gaagagaatg aaggtagtc cccgccgttg caaaccttca 300  
 ccaaaccacg cggcccagtt ttcgtgagta cccctgtgtc ccagagagga ggaccagcg 360  
 tcctcggtc tgccgaaggc tttcttggtc tgggtgggtac tcgaggcagt tgagaacctt 420  
 gctgagctga gcgggcacct cgcct 445

<210> 179  
 <211> 474  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 179  
 ctggttcaga tttttttttt ttaagatgta tccaataaca ctcacgaagt aattaaaagc 60  
 cactttaacc ctgctagtca aatagctatt ttatcaaaga tgtgtgcata cagatgtata 120  
 tatatataca cacacacaca cagtactgta cagaaacaaa catatgcata cctactatga 180  
 acggccaagg caagggggat gatggcaact tgactagatt ctgagaactg ctatttgtcc 240  
 acagatagca tgtcaatgtt gggatgggtt ggggagtgag cgtaggctaa gaaaaaaga 300  
 gatgaagtga ctatgtgctt ttctttaaac ttagtagtta cagacatagt acaggactct 360  
 actnaataat tagtagagat catngaaagt ctggttgat attgaccatg agaccaacag 420  
 agtgaccact attacttaat gcaacatttt ggaaagtcna caactgatgg gaaa 474

<210> 180  
 <211> 510  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 180  
 cactttataa gtttattagt ttacaaacga ttgcaacatc ccgttaataa aatggaaacg 60  
 taagatgact tagtatttta aataacttga agctctgtac tgtggctctt gttcataaga 120  
 aacactgaac caacaagcag cagattcagc ccagccaaga ctctgatgcc ccagtggaaa 180  
 tcactactca caagccttaa ttgatacagt tttacactgn tttgccaag anntgtacna 240  
 taccaactca nttaagagta ttntcttcag gaaacaattc atatcttcac atagtcatta 300  
 aaaagtttaa caatttaatg agtaggttcc cctatcacat tttggcaata tcataaaatg 360  
 gttttagaca tgaaagagct attatggatt tagaaggcct taaatttcct aaaccaatat 420  
 tgaacatcga ttaaaccngg tattggctgt aaatgggaca atatattggc caatccctgg 480  
 taaccctggg gccccaatat aggnaagtta 510

<210> 181  
 <211> 589  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 181  
 atagctacat actttattca aataccactg ggaggcaagg ggtaagaggc aagggcagaa 60  
 tgtacaggtc aggattctag tgtcttcagc ctgccgacag caacctgggt gctgggacct 120  
 gtgtctcctg gagccaaggg ttagggcctg agcagctgtc actctctggg aagcccaggg 180  
 agtggggctg actgagcagg ggccatagag cctagtaagg gaagagggag ctggcaagga 240  
 gcccgaggag ggaggctctg tgaattgtct ctgattcctt tcctggagcc cctgcctcgt 300  
 cacctcctgg gatgcgtctc aaggctcatg aggttgtagt ggaggaggac tgggggctgt 360  
 ttctcagaca aagaatgagg ttattggcac agaattggat cagggggcct ctgtgcaact 420  
 ccttcctgcc ttcagaaagg gagggggcat tnaagggatg agaactccac taagtcctc 480  
 gaanccccc atcccaatg aggtcctca aagctactct cagccctgag tgggagacac 540  
 ggccagctct gggcaagtct ctgggtggct agccttagca ctgtggcaa 589

<210> 182  
 <211> 465  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 182  
 gagggttttt actttttatt tggaaataag acatggaagt tgcaaagata gactactcct 60

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atgtattcct ccaactttcc ccaatgataa tatctcacac aaccatagat tatcaaaacc 120
agaaaaactga ccaggcacag tgggtgtcac ttatagtccc agctactcag gtggctgagg 180
tgggaagatc ccttgagttc aggagttcaa ggccagcctg ggcaacacag tgagaccctg 240
gctctataaa caaaaatggn agaaaaccag aaaactgggtg tcatcaattg tgtttaagga 300
aaccgaggct cctttaaaag tttgttataa aattatagat atctcctaaa tattgagggtg 360
gaaagattcc cctgggaagc agcctagtcc agaaagttga agacagtgc atcccagata 420
ggttaatact tctggccagc accataatta caccctcct tnggt 465

```

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<210> 183
<211> 442
<212> DNA
<213> Homo sapiens

```

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<400> 183
ttttttgttc tcaaataattt ttttaataaat agacgaaacc acgaaaccac tagactgatg 60
gcagcaaact aaggtcagat gagaggggaa actagagaag gagcagcctg agtcagtgc 120
acaacctcct ccccgaccct ctaggttaag gcacttcctg ggaggcaggt ccttggggtc 180
ctgttacaca ggggtgaatgg gagaggaagg gattaggatc ccttctcccc acctttgcat 240
caggacaccc ctgcccttct caccctaccc catggccctg tccctgattt accactctc 300
atctcacagc actctaaggg gaagtttggg tgggaggagt tcttgtgggt gggagaggtc 360
tgtgccctg aggaagccga tcctgccaaa tcttgatgcg acaccagcag cccactctac 420
cctcttcac ccaaggagcc at 442

```

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<210> 184
<211> 437
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> n=a,t,g or c

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<400> 184
tcaagagatt agaaaaattt tattcatcat cccaaactgg attatatatt acaaattctg 60
atgaaaataa tattaaaggt attttcaagt agtaccacaa actatctgta cctgaagata 120
aaaccacaca gtaaactggg aagtacacat tgaatcaatt catctttaaa atatcacttt 180
gtttagaaat tcatatatat gttttttag ttatgaagtg ggagggacac acaaatagct 240
acataagatt ttcatttaac aaacatatga actattcccc atgctttgaa tgaatcatca 300
gaaggctgta aaatcctgtt atttttttca aaggtgcatg aaacaatatt tcatttccaa 360
tagcaaaat acagtacttc taattttcct tatattctct ttcaacccta ctgtgagagc 420
tggttataa ttatatn 437

```

```

<210> 185
<211> 316
<212> DNA
<213> Homo sapiens

```

```

<400> 185
aacagaaaac cggcaattgt tatttatttt aaataagaag tcataatact attaggaata 60
gagagcaaga tataaaatca tatcaaccct tttagataaa tacaaaggac aaatgaaata 120

```

cacaaaaaac aatatat	tttt aaaaatccac tg	tttagtttt taggaaaaag atttagcagt	180
ttccattaag cactacatcc	cactattcca tttttaggaa	ggacagatgc ttgaggccat	240
aggttaccag ctcttggttg	gtctttaaaa atgcaagtaa	gttgctaaca ttttcaaata	300
agatttcaac ataact			316

<210> 186  
 <211> 207  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 186			
ttttgagatc atctactcaa	agttttattgg actgaacaga	tacaaaatat ggagcagaaa	60
ggaaaaccca ctggggagggt	agaggaaatg acagagaaac	cagaaatgac agcagaggag	120
aagcaaacat tactaaagag	gagattgctt gcagagaaac	tcaaagaaga agttattaat	180
nagtaataat taagaacaat	ttaacaa		207

<210> 187  
 <211> 687  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 187			
tgcaaacc aa accaaatcat	tttattgtgc aatttccttc	taccagaaaa ttactaaaaa	60
tataaatatt aactctctaa	aaaataactca gaatagatct	gtaatcttcc tcctcctcct	120
cagaactgga gccaatcttc	ttctttaaac ctgatggatt	gcatacatgt atgtcttcca	180
tatcagccac atacacaaca	ttcagatata ctccgtctg	tgagggggga tacaccagcc	240
tcctgccagg ttctggaagc	tcaccttata atctaccagg	ataaagctgt gtgctgagta	300
ggaggttatg gtgggggttg	ggagtaacaa ggagataaaa	gaccttgtgg tcccaacttc	360
cttatgtgga cagagaagat	aggtccttta ctccctcctca	ttaccctgnc ctctcatgga	420
ctgggctaac tgaaggccaa	gctcccagag aagctggact	cactgtgcgg gattactgag	480
ggtgtggctg ccaggctaca	gtcacaggaa ggnccagactg	ttgagatgga catggaaacc	540
agggtaggct ttggatggna	agctgggtctg gggcaaagct	ctgcaggatg agtagtagct	600
gttccggcgg gntttgggna	gccccagacc ctagcaccag	gtactatgtg cagcatctaa	660
gaccagnacc agtctccaag	agcccc		687

<210> 188  
 <211> 587  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<223> n=a,t,g or c

<400> 188

tcaaataatc	catctaacag	ccatgagacc	actcaagtat	ttgaggtcat	cagctgcgtc	60
catcaagaca	tgatattgaa	catggacacc	atctggtctg	ttggtctggt	tttggtggca	120
aaggactcca	aaaggatgca	gttgatgtg	tttcagctga	accacatacc	atagctcctc	180
tcccctcaca	aaagggtttc	tctgggggga	gaaaagtaac	tgattatacc	tctcatgtct	240
caaactgaaa	ttctgagaag	caaatggtca	gttgagggcc	ccattccaga	tctgccggga	300
cgtcctcaga	tgtccagagc	tggcaaaagg	tggagcaggc	agcagctttg	ggcaccagcc	360
tgtctctttc	tgttctgata	aggccacaca	catggctttt	tgtgataagc	ttccagccca	420
tgccactgaa	ataacgttta	agaacctggc	tgcatttcac	agaaatagcg	taatgggaaa	480
tcattatgta	attaaacaaa	gcatgaagct	cattatcctt	ttccttttaa	caaaccttca	540
atttcacatt	ttagtggaca	ctgtggnttc	cagagaatat	atggatt		587

<210> 189

<211> 469

<212> DNA

<213> Homo sapiens

<400> 189

atgtaaaact	gacttttatt	acaattaaaa	aagaacaaag	acaatttgat	aagtgccttt	60
aattacaaca	tacctgctat	ttacatgtaa	tcatactttt	atatatagct	tgaataagtt	120
ttattacatg	taaactataa	gatattacaa	gttaaaactcc	agtcttttct	ggatattcaa	180
ttgaaatact	actggcagaa	acatacagaa	aacaaatacc	catttcagtt	cctcaggtac	240
cattactggt	tgaatgatca	agatctggcc	acagaagaga	agtggaaata	tgcataaaaa	300
caaaacttat	tcttaacatg	actaacagta	ttgttattta	aaccctaaac	ataattaata	360
attggatcat	taaaaacaca	acttcaattt	atatagcacc	tttcttccga	agagttgaaa	420
gcattcgtgc	ttatctctat	tatttcgttt	gtccccataa	catctctat		469

<210> 190

<211> 458

<212> DNA

<213> Homo sapiens

<400> 190

tccgagataa	gaattcactt	ttatttttcc	agaattaata	ggaatgtcat	tgtgctttga	60
agaataaaca	aggaaaagaa	tgataaaaaga	gttggaaaaa	tgagcagggg	tcatgccaaag	120
taagaatgtg	tacgatatgg	taggtgtcat	tggtatgtta	taaaatgtat	tatgaaaata	180
ttttgatgat	atttcaaaag	ggaaataatg	ctacctaatg	ataatatgaa	aaaacgactc	240
tggctgctgt	agggagaaaa	tataggcttg	gagttgggag	aagagtgaaa	agaaggccag	300
ttggagacaa	ttatactaca	tttagcttta	ggaagggtgt	gaaggagtca	tggattgaga	360
ttgttttcca	agttttcagt	tgaacaattt	caatatggtg	gcattactta	atgacatagg	420
gaggccagag	aacaaacaga	tttggaaagga	tgtggtag			458

<210> 191

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 191  
 ttnggagttta ctttaagagtt ttactttattg ctgtttcttaa attccttccc ctaccacttc 60  
 ctcttgggct tttttatttc tcttggtgat caatctcttt tttgtgatac ttttcattga 120  
 atcatctcga ctccctttatc ccacccctta ctcgactcaa actccttatg ctgaactttt 180  
 caatccaaaa tttctattgt tttaggactc tgggaagcag ttgataaaaa gataaacacga 240  
 gctactgata tggtcaggag atgttttcta aacaaattgt agaaatataa acatgaaatg 300  
 tggcaatgat ccttttaatt agatcattga gcaataaagg atatgaacca ttagtataaa 360  
 tattcaattc agtctttccg gattgtgttg ttagataaga atacatcaa aaagggccac 420  
 agatcgaggg agaaaccaag gaggggtgag gtcatgggtt gagtgttaatt ggttct 476

<210> 192

<211> 582

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 192  
 ttttttttta agtactttatt tttcttttatt tttattttatt ttcttttttggt gtgacatata 60  
 acttaagtgt ggtaaagtat ataaagggca cagatcttaa gtgtaccagg taatgaattt 120  
 tcacaaattt atgcatccat ggtaaccgct aatcagagaa catttccagc acccagacgt 180  
 ctctcttggt ctctttccct gtcaattccc ctgctccaga agcaaccacc catctaattgc 240  
 ctttcaaaaa caggcacaga gattcgttgt gtctgttttt gaacttcatg cgaatgaaat 300  
 cttacagcat gtcttccgtg tgtctggcat ctttagctct ttatgtctgg caaagtcttt 360  
 tatgtcattc tatgtagcag gagtttagaa ccaactttat gggccgggct tgggtggctca 420  
 catctgtaat cccagcactt tggggaggcg gaagcagaag gcaggcagaa cacgtgaggg 480  
 tagggagttc cgagaccagc ctggggccaac ataatggaan ccccatctcn actaaaaatt 540  
 caaaaaatta gcgggcntgg gtggaagggt caaccggtaa cc 582

<210> 193

<211> 413

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 193  
 aagagttgca ttttttactt tttttttatt aaattaaaag ctacagtctg gcagcgattc 60  
 cagaacaggg taaggagggt cctcacaggg gtcagagaag agcggagaaa gacagactga 120  
 cggagactga gacacaggag agaaaggaca aggttaaggg agaactgtat ctgatgaaca 180  
 cacacagccg gctccatggc gggtagcggg gagctcacat cagcccaatt tctcctcccc 240  
 ggcacccgaa gttcagcggg ggagcagtat gtgggggagg ttaggaatca agagaccctc 300  
 ccttccccac cctaggtcct tntctcggtt tggctgtgga gcacagcaca ttaccagaaa 360  
 aagncaaggg caattgangg gcaggggaaac cgggagnata ttntacacgg gga 413



<210> 194  
 <211> 455  
 <212> DNA  
 <213> Homo sapiens

<400> 194  
 cttcatcaat atttattggg cgcctattat gtgcaaggcc ttacactagg cgctggggaa 60  
 gatacaaaga taaatctgac agactgccct caaagagctt acagtctagt ataggagcat 120  
 acagtctctg gagaagatat tttaagtgtg actaacctcc cccatcccac cccacaaaa 180  
 aaaaagaaaa aacctactag acttggtttc ttccatttac ttttagttta gcagcttcac 240  
 gtaaaaagca taaatctgaa agtcttttaa aatgcatact tttactggta aacaaaattc 300  
 attttcatta gaaaaaatgc tgaatattta ttgcaattaa gaaaaatctt cagccgggca 360  
 cggtagggctc acacctgtta tcctaacact ttgggaggcc gaggcagggtg gatcacttga 420  
 ggtcaggagt ttgagaccag cctggccaac ataag 455

<210> 195  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 195  
 ggcagttttt cctgtttatt atatagttat tctaagggtg taagtgtcac aaagttaact 60  
 tcaagaggaa taacatgggtc cagtgtgaaa cacaagggtac aacattttac aatgaaacca 120  
 cagcacaaag taactgaact ttcaaaattg ggtagttcaa tgaaacattt tgtcaaccct 180  
 tagctctata aagctctgct gatggactta gttgatggat ttaaaaaata tattgctgtg 240  
 tcaaatgttt taacacaaaa tgtttttttt taaagagaat acacatccaa tcaactgaaa 300  
 ctgtgagcag aaagtatgta acctctttat aaaaaccgtt atccaaattt acaacattca 360  
 taatatattt caaagtanag agttcttaga aaaataaact caattccttg cttactgatg 420  
 agtatcaact cctcaaaaca catc 444

<210> 196  
 <211> 450  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 196  
 aataccattt tgagagtaat tttaaagact aatgcgaaag ttcgggagca cattgtatat 60  
 ttgaaataag tgtagtgtgt gcaaagacca ttttctacct gtggataaaa atcaattccc 120  
 ccaaaggcct aaaagcatga acaatgttta ttttcgagta aataattaaa ctacatattt 180  
 aacatggaaa aaattaaatg aatgtcaaaa ccaaaattaa gaactataag caaagcatgc 240  
 agtctctgtt aacaaaactt agttgtgaaa ctacattttt cattttgtaa atgccattat 300  
 ttcatctcat aaaatggtaa aaatcctcag tatcattctt tacacttgat gcggcaaaaca 360  
 cttcctttcc ctatttttcc cggnatttcc tgcaaaataa atctaccatc tcaagttccn 420  
 taatggttca tactttcttc tcaacatatt 450

<210> 197  
 <211> 447  
 <212> DNA  
 <213> Homo sapiens

<400> 197  
 atcaatcata tttctgtcat ctccaaccta agatattttt tagattgtct ccctattctt 60  
 tgattcaaaa gcccaattaca gaaactatga acttgaccta attctgggtt ttgacaatta 120  
 tgagacagaa ataaagaaat cgcaagcagt tcttttcttt gcacactgac ctttttttaa 180  
 ttacatcatc ctctatgatg atgggtgctt cacaactgca gctctcctgt atgtcaaaat 240  
 cattctgggt tccaggtaaa tggacaaagg agatttgctt tcagtgtcta gaaggcaatt 300  
 tacttttcag ctgccttaat tacctatagt ttaaagaaag gaatgccaca tatagggtcc 360  
 tttaaacatc taaaatgggg aggttggcct ccaaggggca ccattcccaa acatttgatt 420  
 tcaagtccca gaagcctttc atatatg 447

<210> 198  
 <211> 288  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 198  
 gcaacaaaag aaactattta tttggaatat gcattaccag tacaattag gagactgtaa 60  
 aacctacacc gtgttagtat cattagagaa cacaaaagtt cagttggaat caaaaggac 120  
 agaagcctgt gctctcacag aagcagaaaa gcttaaactt tcaaaacca aacagagcag 180  
 agtttgcagg tttatattct gaataataag aaatgggng gggtaggggg agaataaaac 240  
 caacaacca aggaaagcat ttcaaattga aaatgccaaa ggaaagaa 288

<210> 199  
 <211> 318  
 <212> DNA  
 <213> Homo sapiens

<400> 199  
 tttttttttt tttttttttt ttatttttcc ataaaaatgt aatttttaatg atacagaaat 60  
 agtatatgta cttttctttc cacagcagca cttcattcat ctctaaaaaa ttttaacaaa 120  
 ttaaggctaa atcagagcga gctgatagga aggggtattc tatgtgggtg tcttcttaaa 180  
 gaatgttctc ataaatatag gatgttctgc agacaagaaa taaaaataaa acatgctgaa 240  
 caagatacca aaaatgggaa atgcagtaga aaatgagccc ctttctacca atctactaag 300  
 aatcccaact cccctggg 318

<210> 200  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 200  
tctattttaga tcggatttta ttttgcaata tttattatat attcaattca aatgtactca 60  
ctattgtgct aggcaattga aagtaaaaag tataaagctg cattttgcgc tctcagtgag 120  
gtttaagtca gggaaatgag gcatgcacac aaaataacga gaaagtagta taatagctgt 180  
gatcattagt tatcaaaata agtgaatgag ctaataatca ttgttagaat a 231

<210> 201  
<211> 460  
<212> DNA  
<213> Homo sapiens

<400> 201  
taacagaaaa aagtcaaag acaattttta tagactttta aacagtgtac aagtaaaaaa 60  
cactggtttt gtatttcaaa agttgaagga agatatccag tcattaaaca gtctacaaaa 120  
catatgccag taaattacat aaaagactat gtacaatata aaaagagctg aaaacagtct 180  
tactgtataa aataatttta aacaaacttt tcaattttta atatcatcta tagcacacaa 240  
acatcatgca aatggaaaac taaatatact gcattcttta gtgtagccaa ataaattcag 300  
attgagacat cttataagta agggaaatgg ccattcaata cgattttttt ctctggcagt 360  
aatggtccta gctgggtgtt ttatgcataa agaacagcta tatttcaaac cctttttatt 420  
gtaataaata ctaaagcaac agaggaatac tttattaatt 460

<210> 202  
<211> 440  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 202  
gtttattaaa ccagatttat tctccacaag ctgaagatac ctgagggttac atgaggactg 60  
gcattaaata atttataaat gtatttttga ctgacagact tttatcataa ggattcatgt 120  
gtttacaaaa gcaaaatcca acctctccag agctagaaag tgggaagggtg cccgggctgc 180  
aacacagcct tgggggagga tgaggccaca taattctctc tgcccacact ctgagaatgc 240  
cccaagaagt tagtagctac acaaagccaa gccttggggg aaaacctggt ccgtgggtgtg 300  
gactctccaa aatgcagacc caaccggang cggggccgc ctttccatct ggaggcactg 360  
cagggcttct gaaagcggcc catcccagga gcctggcaaa cacccccaga gaccctcagg 420  
atgcgcagcc ccggggcttt 440

<210> 203  
<211> 210  
<212> DNA  
<213> Homo sapiens

<400> 203  
aaagtaaagg atttattgta atctgcttac agtcctttgc aaagacagac atatgttttt 60  
gcataaagat ataaattgct tcatttttaa ctaatttagt gtttttttaa attatatgaa 120  
cttttggtga attatgaact gtaccaaacc aagattttta agagcaatat ggtacaaaaa 180  
taagagcaga cagacaattt ggactgggac 210

<210> 204  
<211> 529  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 204  
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gaaatctcca ctgggttctg gcccccttca cctccatgca tccccagcat ggggtgtaat 120  
cattacccaa gctctcgctg ttccccctca cccctgcag agtccagcag gtctagatac 180  
gtgctctttg aaatgtgttc tgggattaaa aatgggtgcc tgaggctgtc taaccctcac 240  
aaaagacaga cacatgcaca cacgggcctt ggggagggct gtgtattagc agtcagggtg 300  
gccctcctgg gagagcttgc tcaagaactc ttctcggaag gaaaccacc ttaaggtagg 360  
gttctgatag gcagantccc agagggacag ccagctgcta gaagatgggg ttatccaggg 420  
tttgtaaggt ttaaacaacg ggcagggagn caaacgagtc aaatgggttc ctcggtcgaa 480  
ttttggctcg aggcaaattc ctatagttag ngattaaat cgtaacatg 529

<210> 205  
<211> 445  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n=a,t,g or c

<400> 205  
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agttgtactc agtttgggct aagcagttag caatctcctg gtcacacttg cacaacagtt 180  
cttggcattt gttctctgcc ggtccgcaca ggacgctctg attgacgcac tgccaggagt 240  
agcgtctctg cttggggctg cagcggcctc ctgagctcga gtgtaacaac agtcgtggcc 300  
atggcagcac cagtcaatgg catcgcgagg ctggccatgg cctcccaagc cacaaaagca 360  
accatatttc atataggcga tgggggttcg gggaccaaca caacccccag ttctgccag 420  
tttccaggat cccangccgg tggnt 445

<210> 206  
<211> 197  
<212> DNA  
<213> Homo sapiens

<400> 206  
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tgtgagtata cacggtcata aaaatatctt taaaatatgg tggtagaaaa caaccttgta 180  
aaaacgttgt attgtcc 197

<210> 207  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 207  
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 ccatcctccc ctgtctgtct cccatctcaa gtccaattcc aaggccagag ccctggcagc 180  
 ttttctggga gacagcatga aaaggagggg agtggagatg gcagagatgg ggtggagcca 240  
 gtgcgctgtg ggtcctgttg gcgtgggtgat gtgggggcca atcctgaggc cagagggtca 300  
 tcaccgtgat ctggaagccc acggggcccc tgggtagaaa cttgggaaga acaaaggggg 360  
 aaaagaaacc agaacaggaa gaagacgagt aagcnttccg agtttcacga gat 413

<210> 208  
 <211> 256  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 208  
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 aggtcacagt gacatcatat acaaaaggaa ccagattgaa aaagatattg ctgacatagc 120  
 cagtagtgag attactaaag antaaacaga aatgccttg gaaattattt ttacaccggc 180  
 ttgaattgaa acattaaagc aaaatgaaag ctgtaaggng ttactagtt ttcccaaag 240  
 cgttgtcaag tttatt 256

<210> 209  
 <211> 331  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 209  
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 aaagaaacaa aaggaacaat atttgtactc tatgttgctg cagagagcag aactgcggag 120  
 ggggtgctag tcccaagggg tggactgtgc tgtgctagtgc ccctaaatcc tgcaagcgcg 180  
 ggggttgggg ggcgggggag accgctgtcg ggggtcgtga gttccgggcc cttgtgtgca 240  
 tgttcacgtc ctgtcattct tgccccagc tgagagagca gtagaggaaa ggcactacat 300  
 ccaccagcct ttgcattctc ctcgagcac a 331

<210> 210  
 <211> 410  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n=a,t,g or c

<400> 210  
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 catcaggaaa atgtaaaaaa gatactgata tatattctat gatttttatg ccacaaacac 180  
 ccctgttatg agatcattta atagggaaaa caattatact gacatctctt gtccnattt 240  
 tccccattag gatataatcc atacaacttc aaggataggt tttaaaaata atccattcag 300  
 gggtattcnt aaaattttgc ccnataaaat tnggccagg tatggccctt ctgggtaatt 360  
 gcctaaaccc caatatttcc acccatataa aggcntgggt gaccnccatt 410

<210> 211  
 <211> 349  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 211  
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 tactacagct tagagtagct gctatgggag tgtggccttt ttgattaaat actagctgat 180  
 caaccctaga atataaatnc ttgttttata acatttagat ttaaataaca atanggaatg 240  
 taaggcncca tgaagggcaa ggaatgcctt tttgttttgt tcaactgctg ggtctaaaat 300  
 aatgccgggg ctcaaattt tggttgantg aggtaaatat ggctggact 349

<210> 212  
 <211> 355  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 212  
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 gtaaagggtta ctgagattaa gcttcagagc accaacttaa acaaaacaac caaaaaattg 180  
 ttatccaacg tgggaaagag ggagcaagga accaagggca taaaggggga attaaatatg 240  
 tgttccntcc catctccaaa atccttttag gggaatagg agttctgggc cncctgtgag 300  
 gccaccacat tgcaccccc aacccccatt ccagatct taaattttcg ggntg 355

0987357 060507

<400>	213						
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atggggagaaa	tacttttatgg	aagataaatt	ctaacgggca	cagccaaagt	aacaaaaaatg		180
tacattttaca	tacaactgat	ccaaacagga	agtaaaagcn	ttntggaaaa	anggancatg		240
ttgcaantca	tttccccctg	gacaaangga	gggntctgcg	tgattttacag	gcaatttcaat		300
tgttttccac	nttttttaaag	gcaagcctgg	cttctacagg	tattttantt	ccttgggggg		360
gagttttcacc	tcntcttttt	tcccc					385

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<220>
<221> misc_feature
<223> n=a,t,g or c
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<400>	214								
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ttacagaccc	agctttttta	atattcaata	acattcacag	aattggcaag	ttagtctcca				180
aaaaattcta	acagaaactg	caactcaaaa	agtgtgtcta	tatcagagat	ggtggtaaact				240
tcctcaaaga	agttacatgc	aaatncccg	gggtctcatg	gtttacaagg	tgac				294

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<210> 215
<211> 368
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<223> n=a,t,g or c
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147

ttctgccc

368

<210> 216  
<211> 235  
<212> DNA  
<213> Homo sapiens

<400> 216  
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agtattgcac taatgtggaa ttgaaagac tattttgctg atactgtata tatgcgcac 120  
attcctgatt agattgttgt aaagacaatc tgaaagatct aaggttttaa aataatttgg 180  
tttgaaaata tacagttgtc ttgaaggaat tgctgtgata catgaaaaaa aaaaa 235

<210> 217  
<211> 195  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n=a,t,g or c

<400> 217  
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agtgcagtaa ccaaagancc taatgttttc aagcataaag gnacttttng tgaacaggtg 180  
ggcaacacag gcagg 195

<210> 218  
<211> 343  
<212> DNA  
<213> Homo sapiens

<400> 218  
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ttagttctca tttggatttt aaacatttgc ttgacaaata atttcccatc aatttccatt 120  
tctttgaaa gctcccacgt gtaatttatt tttaacatct ctgaagagca gaattaatga 180  
tatttcctag ctgttgctcc agatcatgta gggtagagga ggctgaaaac tgctacaagg 240  
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<210> 219  
<211> 312  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c



<400> 219  
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 gggaattgaa aattagtaga aaaattccaa ggggaccagt tagccacaac aaagaatggg 120  
 gttcagggaa cttcttaggg atgtatcttc ccttcaatac aggtagagga gcagcatcag 180  
 aagcagggct ttggagagag gcatagaaga gaatcacctt ctctggccc acgcaagcta 240  
 cctgggtgta cctntcaagt tcagggccag cttcttggtc cttccccgct cttggtagat 300  
 gtaaaagggt tc 312

<210> 220  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 220  
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 ggccaagnaa ngaagcatgn caccgaggtc cagcttcacg gtatttgag gtagcacggt 120  
 gtcacagaa agcaggaact tgtccagga ggcgtcacc agggagaact cggcggggag 180  
 gtgggcgcca gggtcaccag caggcagtgg cttaggagct tgaagttgac cgggtccacc 240  
 caagcttggt cgcgtgccag gtcttcagg ngacangcgt tg 282

<210> 221  
 <211> 493  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 221  
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 agcaggntcc tatccagatg atacatgaga tggaggctcc tcagccacac tccaggagg 180  
 gtgggggtggc aagggggatt cagggataat ggcattaata atacaagtgg taaacaaata 240  
 accaagaggn tctggctggt tacgntacac aaaanttagc agtaagagtc cgtgctttca 300  
 cattcctatc agacagatct gagttcaaat cctgtatgtn tagcaggggtg aggtatctgc 360  
 tttctttcag agcccatggg tgcacatctc tgagcctagt tacaacagtt ggcacatagg 420  
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<210> 222  
 <211> 305  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<223> n=a,t,g or c

<400> 222

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tgctagaatc	agccctcata	caagtgtgct	cagagatccc	aggagcgatg	gcacccctcc	180
gaagtcacta	cccccatatg	tctccttggg	cttcttcccc	ctctctttct	ggaacctgac	240
caggcagaac	gcagcaactg	ncagcaacag	cacgcccagg	gagcacccca	atcagagntc	300
cggcc						305

<210> 223

<211> 263

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 223

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cagaattcct	tttcattttc	ttttcaggnt	ttctatctct	ttactgttat	ttccattttg	180
ttaatacatt	ttgtcttgat	gttccccaca	tactccttta	ggggctttca	atgtctttaa	240
cacagntggt	tttaagggtc	ttg				263

<210> 224

<211> 2263

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 224

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<210> 225

<211> 2895

<212> DNA

<213> Homo sapiens

<400> 225

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<212> DNA

<213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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&lt;210&gt; 253

&lt;211&gt; 2088

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

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 <212> DNA  
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<211> 1800

<212> DNA

<213> Homo sapiens

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<210> 262

<211> 2041

<212> DNA

<213> Homo sapiens

<400> 262

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g						2041

<210> 263  
 <211> 886  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

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<210> 264  
 <211> 1033  
 <212> DNA  
 <213> Homo sapiens

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<210> 265

<211> 2333

<212> DNA

<213> Homo sapiens

<400> 265

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<210> 266  
 <211> 3136  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400>	266					
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<210> 267

<211> 4040

<212> DNA

<213> Homo sapiens

<400> 267

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<211> 1208

<212> DNA

<213> Homo sapiens

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<211> 2815

<212> DNA

<213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <213> Homo sapiens

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